

Transport & Fate Modeling for Developing Site-Specific Soil Cleanup Levels
Using SESOIL and AT123D

Outline & Schedule

Day 1

7:30 – 8:00	Registration & continental breakfast
8:00 – 10:00	Development of leaching-based soil cleanup levels <ul style="list-style-type: none"> • Conceptual basis • Approaches
	Introduction to vadose zone processes & modeling <ul style="list-style-type: none"> • Soil moisture movement • Contaminant migration • Modeling considerations • Model assumptions & limitations
10:00 – 10:15	Break
10:15 – 12:00	Overview of SESOIL <ul style="list-style-type: none"> • Soil compartment • Hydrologic representation • Contaminant transport & fate
	Setting up & running SESOIL <ul style="list-style-type: none"> • Input parameters • SESOIL Results
12:00 – 1:00	Lunch Break
1:00 – 3:00	SESOIL cycles (modules) <ul style="list-style-type: none"> • Hydrologic cycle • Pollutant cycle • Washload cycle • Calibration
3:00 – 3:15	Break
3:15 – 5:00	Development of site-specific cleanup objectives using SESOIL <ul style="list-style-type: none"> • Leachate concentration & mass transfer • Groundwater mixing zone (DAF) • AT123D
	Comparison of SESOIL with other methods & models <ul style="list-style-type: none"> • Soil-water partitioning • Synthetic precipitation leaching procedure (SPLP) • Other models
5:00	Adjourn

Day 2

7:30 – 8:00	Continental breakfast
8:00 – 10:00	Introduction to groundwater processes & modeling <ul style="list-style-type: none"> • Groundwater movement • Solute transport • Selection & use of groundwater solute transport models • Model assumptions & limitations

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	<p>Overview of AT123D</p> <ul style="list-style-type: none"> • Model construction & solution • Representing sources & release types
10:00 – 10:15	Break
10:15 – 12:00	<p>Setting up & running AT123D</p> <ul style="list-style-type: none"> • Input parameters • Linked to SESOIL • Linked to BIOSCREEN
	<p>AT123D results</p> <ul style="list-style-type: none"> • Area report • Centerline report • Point of compliance report
	<p>Development of site-specific cleanup objectives using SESOIL linked to AT123D</p> <ul style="list-style-type: none"> • Site-specific dilution attenuation factors (DAFs)
12:00 – 1:00	Lunch Break
1:00 – 3:00	<p>Comparison with other models</p> <ul style="list-style-type: none"> • Summer's model • BIOSCREEN • MODFLOW/MT3D
	<p>Development of site-specific cleanup objectives using SESOIL linked to MODFLOW / MT3D</p> <ul style="list-style-type: none"> • Overview of MODFLOW/MT3D • Linking to SESOIL
3:00 – 3:15	Break
3:15 – 5:00	<p>Examples</p> <ul style="list-style-type: none"> • Multiple SESOIL sources in AT123D • Groundwater sources & transport
	Bring your site data
5:00	Adjourn